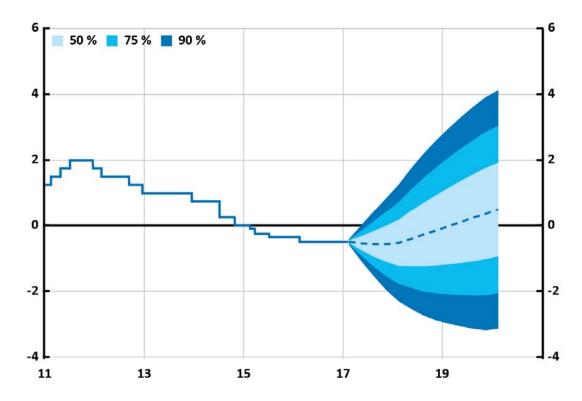






#### Figure 1.1. Repo rate with uncertainty bands

Per cent



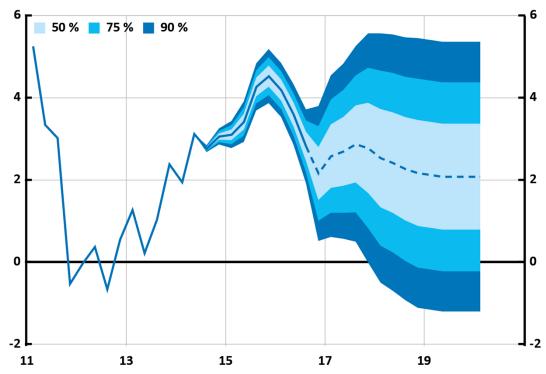
Note. The uncertainty bands for the repo rate are based on the Riksbank's historical forecasting errors and the ability of risk-premium adjusted forward rates to forecast the future repo rate for the period 1999 up to the point when the Riksbank started to publish forecasts for the repo rate during 2007. The uncertainty bands do not take into account the fact that there may be a lower bound for the repo rate. Outcomes are daily rates and forecasts refer to quarterly averages.

Source: The Riksbank



#### Figure 1.2. GDP with uncertainty bands

Annual percentage change, seasonally-adjusted data

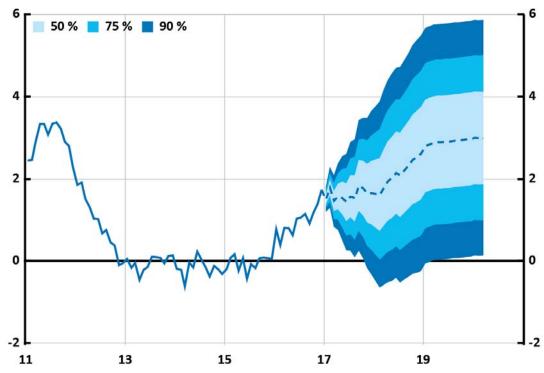


Note. The uncertainty bands are based on the Riksbank's historical forecasting errors. There is also uncertainty for the outcomes for GDP, as the figures in the National Accounts are revised several years after the preliminary publication.



#### Figure 1.3. CPI with uncertainty bands

Annual percentage change

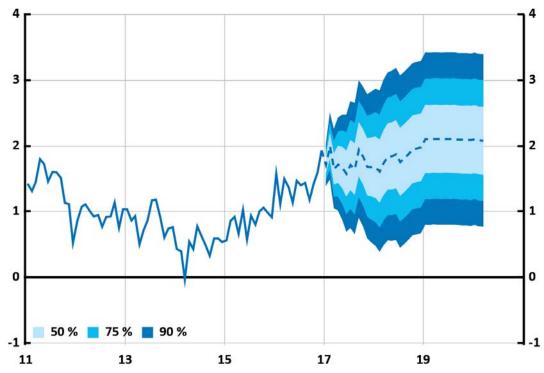


Note. The uncertainty bands are based on the Riksbank's historical forecasting errors.



#### Figure 1.4. CPIF with uncertainty bands

Annual percentage change

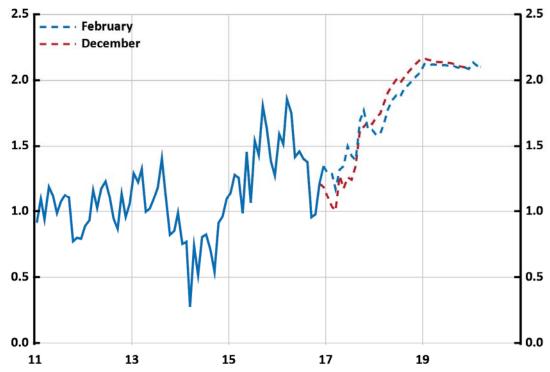


Note. The uncertainty bands are based on the Riksbank's historical forecasting errors. The CPIF is the CPI with a fixed mortgage rate.



#### Figure 1.5. CPIF excluding energy

Annual percentage change



Note. The CPIF is the CPI with a fixed mortgage rate.



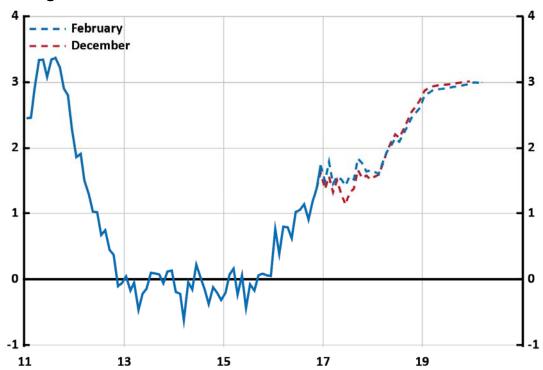
### Figure 1.6. CPIF Annual percentage change



Note. The CPIF is the CPI with a fixed mortgage rate.

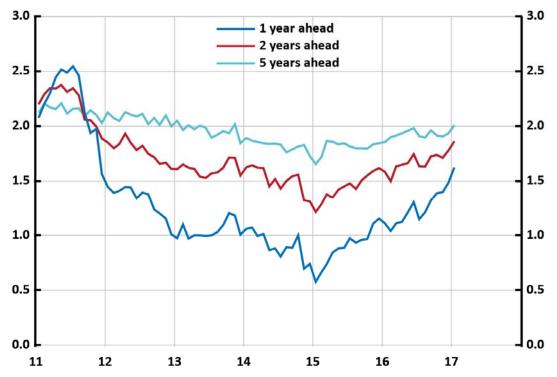


### Figure 1.7. CPI Annual percentage change





Per cent, mean value



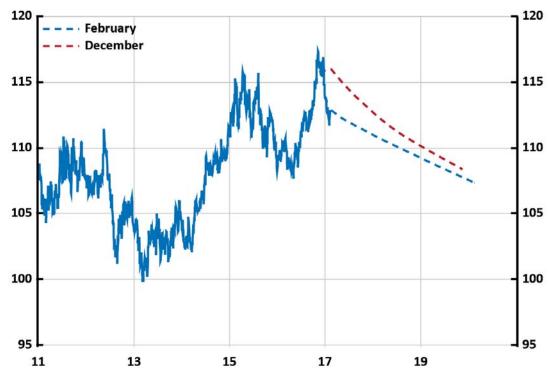
Source: TNS Sifo Prospera





#### Figure 1.9. KIX-weighted nominal exchange rate

Index, 1992-11-18 = 100

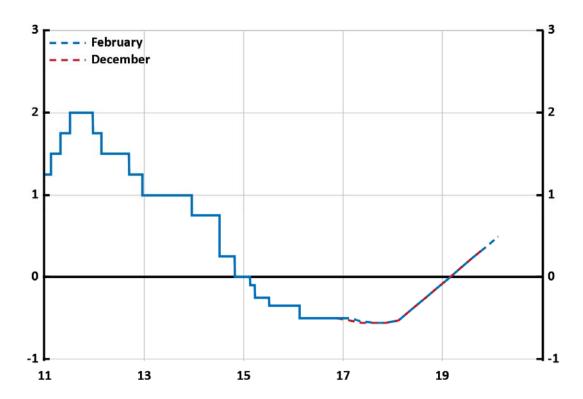


Note. Outcomes are daily rates and forecasts refer to quarterly averages. KIX refers to an aggregate of countries that are important for Sweden's international transactions.

Sources: National sources and the Riksbank



### Figure 1.10. Repo rate Per cent



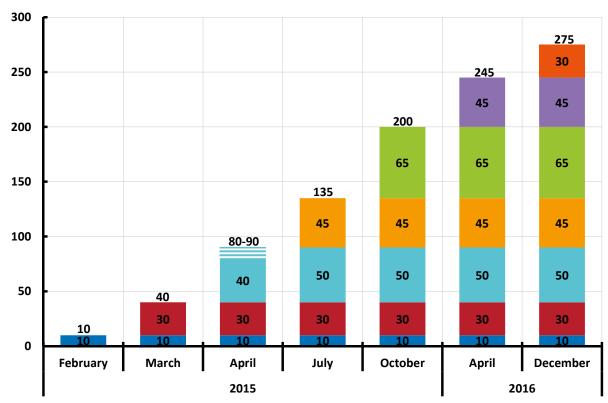
Note. Outcomes are daily data and the forecasts refer to quarterly averages.

Source: The Riksbank





**SEK** billion



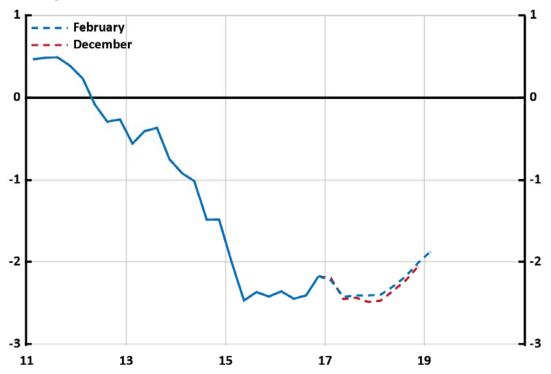
Note. Purchases of government bonds, excluding reinvestments, will continue until mid-2017.

Source: The Riksbank



#### Figure 1.12. Real repo rate

Per cent, quarterly averages

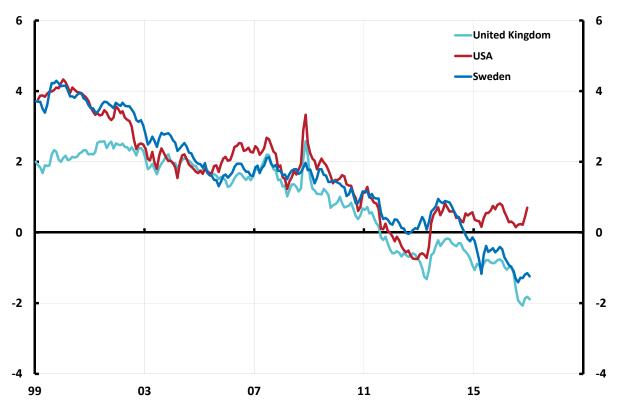


Note. The real reporate is a mean value of the Riksbank's reporate forecast for the year ahead minus the inflation forecast (CPIF) for the corresponding period.



#### Figure 1.13. Real interest rates

Per cent



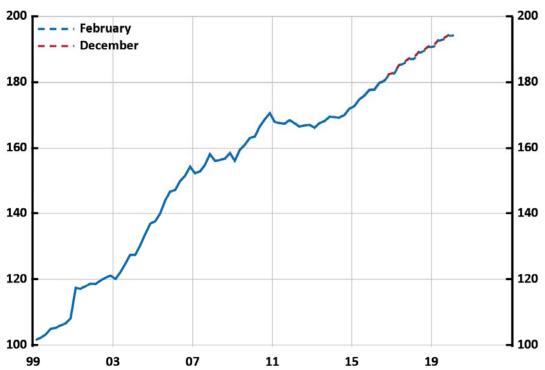
Note. 10-year yield on real government bonds in Sweden, the United Kingdom and the United States. Swedish real interest rate is zero coupon yields interpolated from bond prices using the Nelson-Siegel method.

Sources: Bank of England, Federal Reserve, Thomson Reuters and the Riksbank



#### Figure 1.14. Household debt ratio

Per cent of disposable income

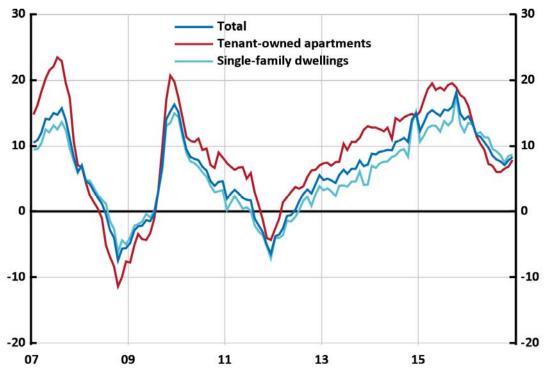


Note. Households' total debts as a share of their disposable incomes totalled over the past four quarters.



#### Figure 1.15. Housing prices

Annual percentage change

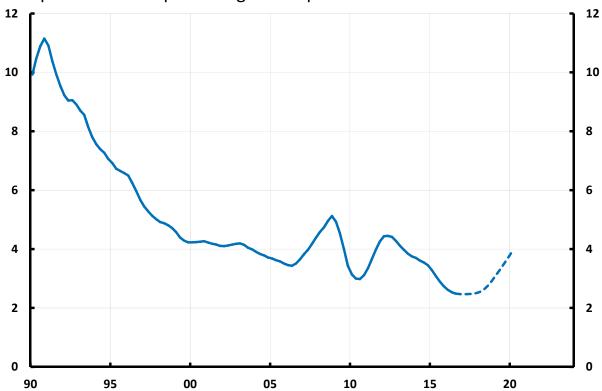


Source: Valueguard



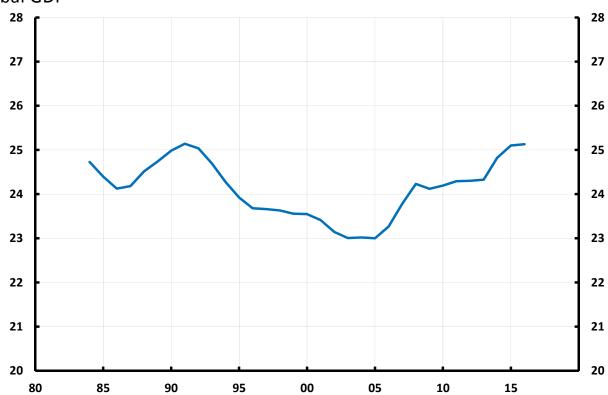


Per cent, interest expenditure as a percentage of disposable income





## Figure 1.17 Per cent of global GDP



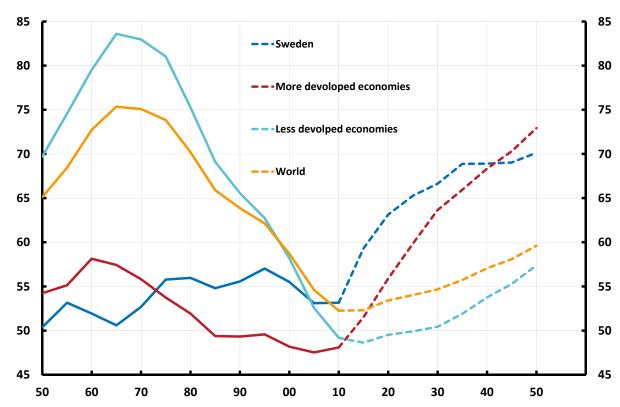
Note. Current prices, 5 year moving average.

Source: IMF





Per cent



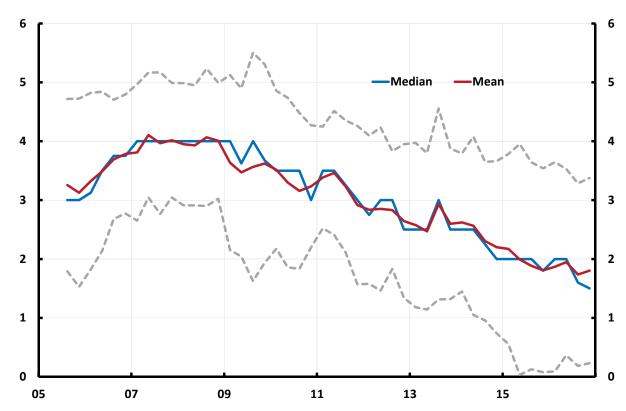
Note. The population in age groups 0-14 years and over 65 yeras as a percentage of the population aged 15-64. Data is 5 year frekvency and 2015 is an estimate.

Source: United Nation



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Per cent

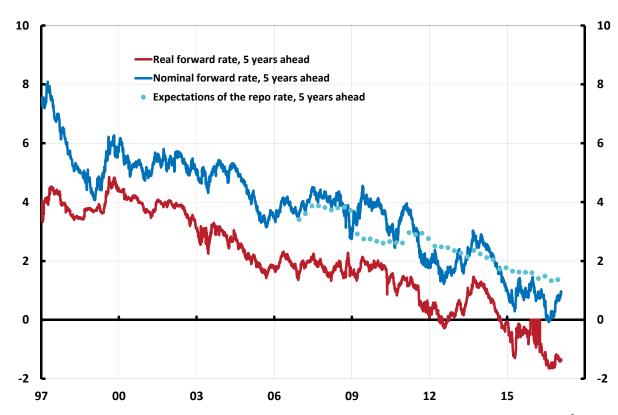


Note. Survey respones between June 2005 and November 2016. Broken grey lines represent +/- 2 standard deviations and illustrates the spread of the reponses. Sources: TNS Sifo Prospera and the Riksbank





Per cent



Sources: TNS Sifo Prospera and the Riksbank

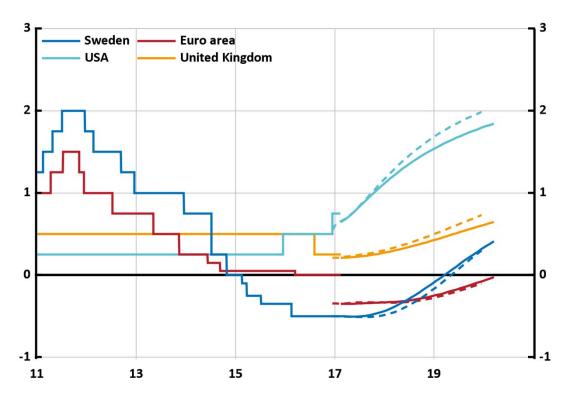






SVERIGES RIKSBANK

Per cent

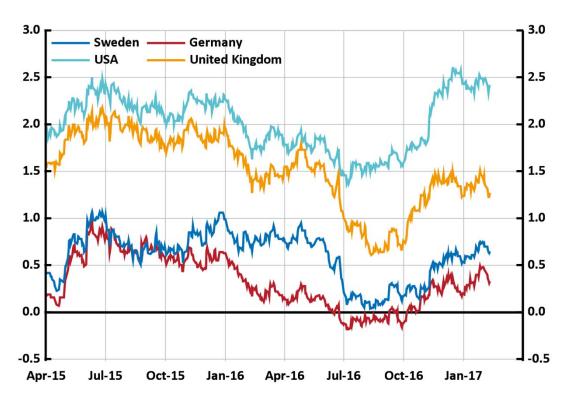


Note. Forward rates describe the expected overnight rate, which does not always correspond to the policy rate. There is no published overnight rate in Sweden, but it normally follows the reportate closely. Unbroken lines are estimated on 10 February 2017, broken lines are estimated on 20 December 2016.





Per cent

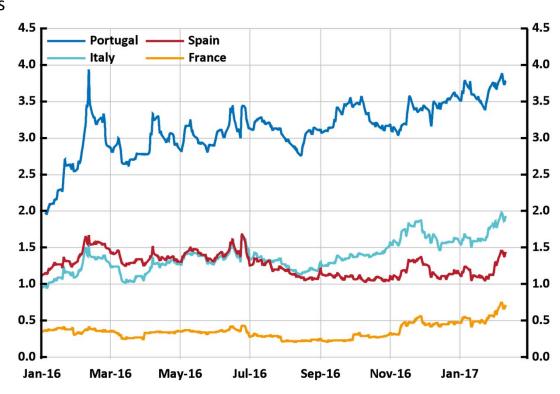


Note. Zero-coupon rates interpolated from bond prices using the Nelson-Siegel method.



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Percentage points

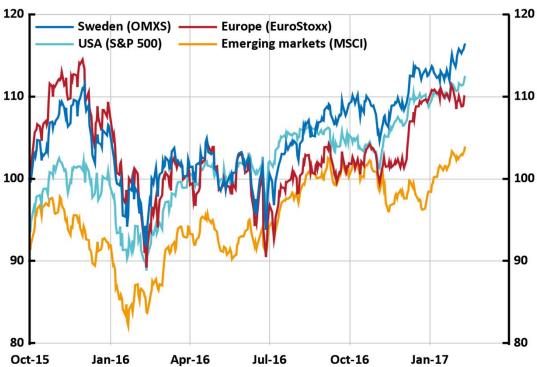


Note. Yield differentials refer to 10-year benchmark bonds.



#### Figure 2.4. Stock market movements

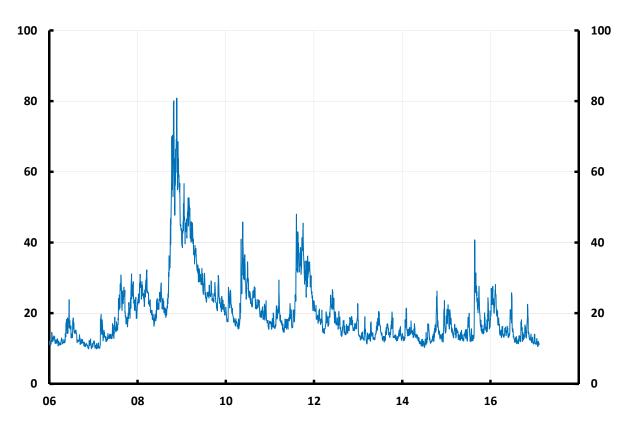
Index, 2 January 2015 = 100



Sources: Macrobond and Thomson Reuters





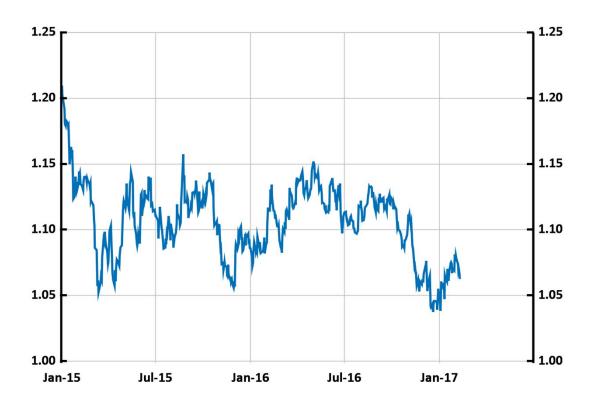


Source: Macrobond





USD per EUR

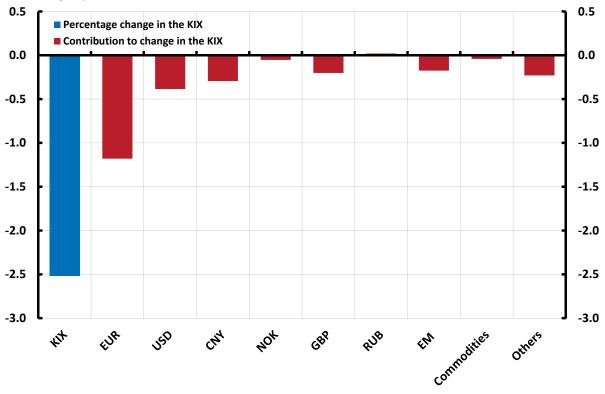


Source: Macrobond





Per cent and percentage points



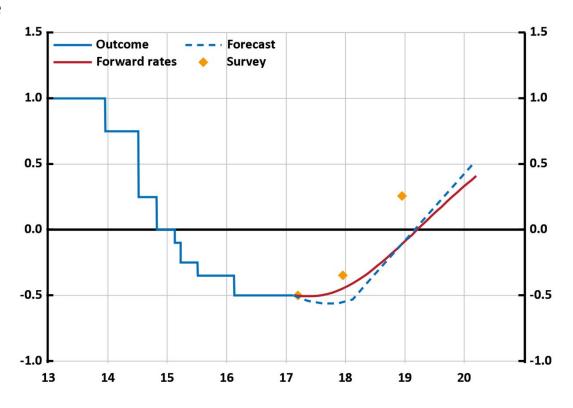
Note. The figure shows change in KIX and contributions from different currencies between 21 December 2016 and 13 February 2017. EM refers to Brazil, Hungary, India, Mexico, Poland and Turkey. Commodities refer to Australia, Canada and New Zealand. Others refers to Czech Republic, Denmark, Iceland, Japan, South Korea and Switzerland.

Sources: Thomson Reuters och Riksbanken



#### Figure 2.8. Repo rate and market expectations

Per cent, average



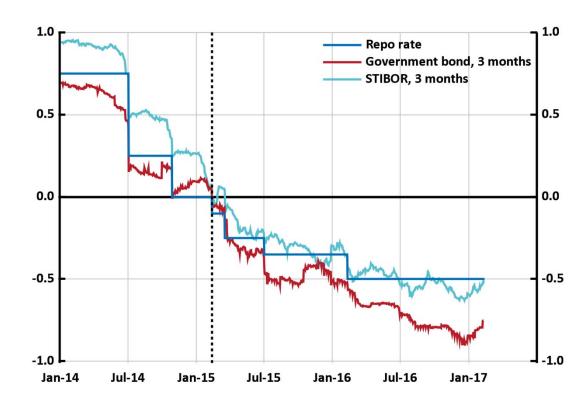
Note. The forward rates are estimated as of 10 February 2017 and measure the expected reporate. The survey responses show the average for money market participants on 12 January 2017.

Sources: Macrobond, TNS Sifo Prospera and the Riksbank



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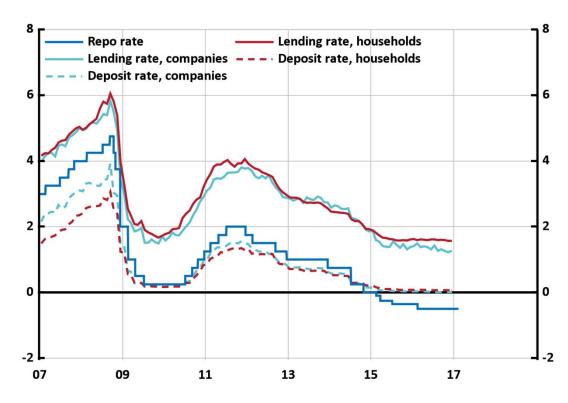
Per cent



Note. The broken line refer to the start of the bond purchases.

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# Figure 2.10. Repo rate together with the deposit and lending rate to households and companies, new contracts Per cent



Note. MFIs' average deposit and lending rates for households and companies.



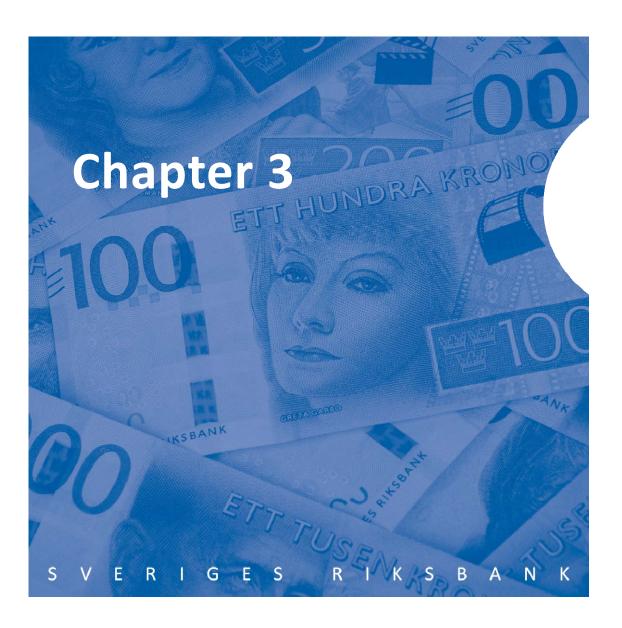


Annual percentage change



Note. MFIs' lending to households and non-financial companies according to financial market statistics adjusted for reclassifications and traded loans since 2006.

Source: Statistics Sweden

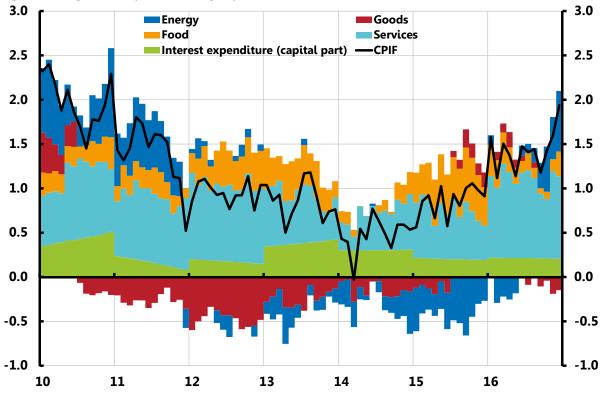








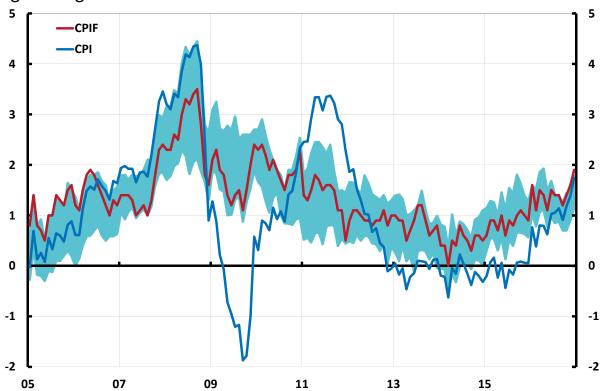
Annual percentage change and percentage points



Note. The CPIF is the CPI with a fixed mortgage rate. Energy constitutes 8 per cent, goods 26 per cent, services 45 per cent, food 18 per cent and interest expenditure 4 per cent of the total CPI basket.



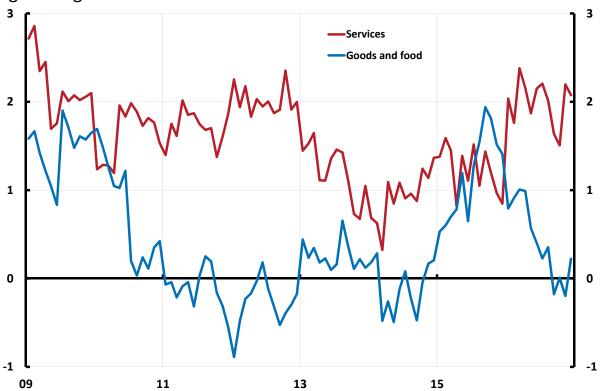




Note. The field shows the highest and lowest outcomes among different measures of underlying inflation. The measures included are the CPIF excluding energy, the CPIF with constant tax, UND24, Trim85, HICP excluding energy and unprocessed food, persistence-weighed inflation, factors from principal component analysis and weighted mean inflation.





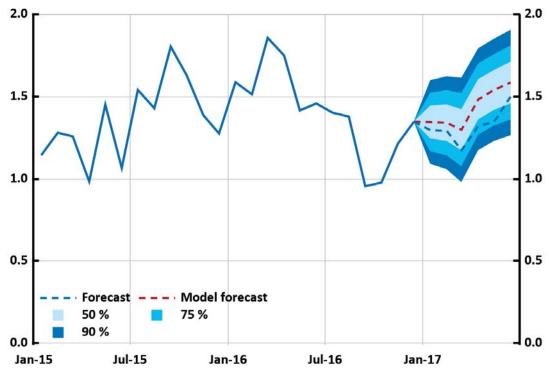


Note. Goods and food is a combination of the aggregate goods and food in the CPI. Together, these account for 43 per cent of the CPI. Service prices account for 45 per cent of the CPI.



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Annual percentage change

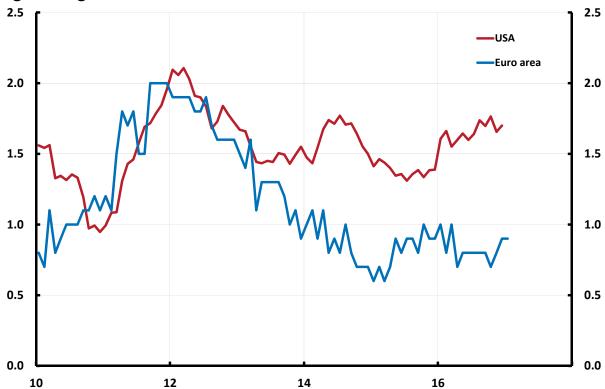


Note. The uncertainty bands are based on the models' historical forecast errors. The CPIF is the CPI with a fixed mortgage rate.



#### Figure 3.5. Underlying inflation abroad

Annual percentage change



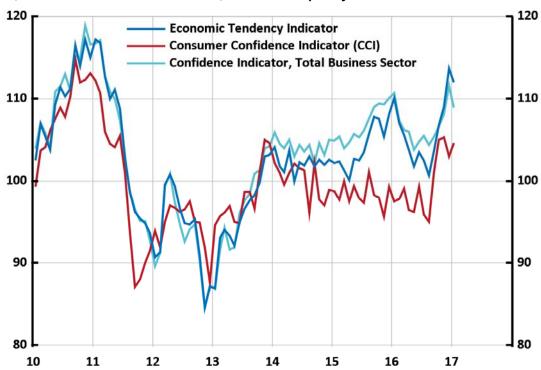
Note. HICP excluding energy and unprocessed food is shown for the euro area and PCE excluding energy and food is shown for the United States.

Sources: Bureau of Economic Analysis and Eurostat



#### Figure 3.6. Confidence indicators

Index, average = 100, standard deviation = 10, seasonally-adjusted data

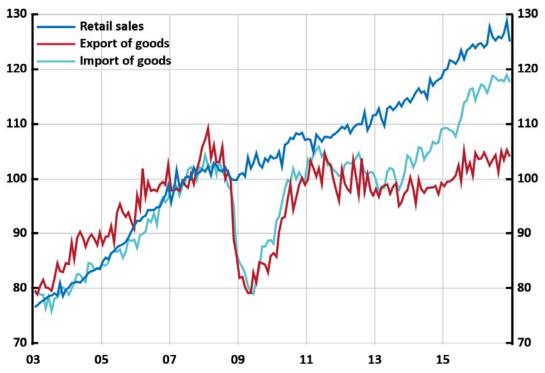


Source: National Institute of Economic Research



#### Figure 3.7. Indicators of demand

Index, 2007 = 100, seasonally-adjusted data

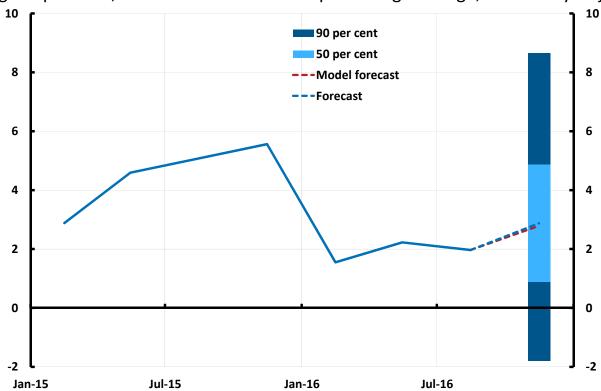


Source: Statistics Sweden





Quarterly change in per cent, calculated as an annual percentage change, seasonally-adjusted data

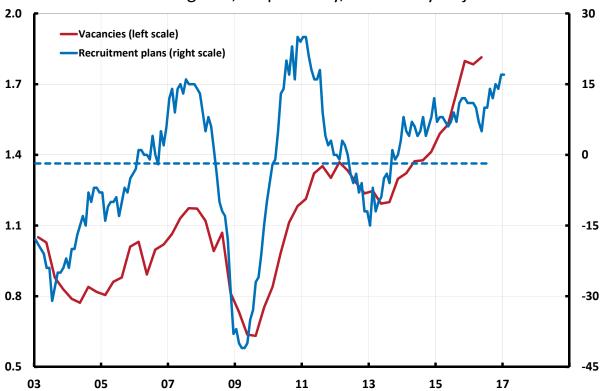


Note. The model forecast is an average forecasts from different statistical models. The uncertainty bands are based on the models' historical forecast errors. One explanation for the wide uncertainty interval is the large variation in growth outcomes between different quarters.



#### Figure 3.9. Vacancies and recruitment plans

Per cent of the labour force and net figures, respectively, seasonally-adjusted data



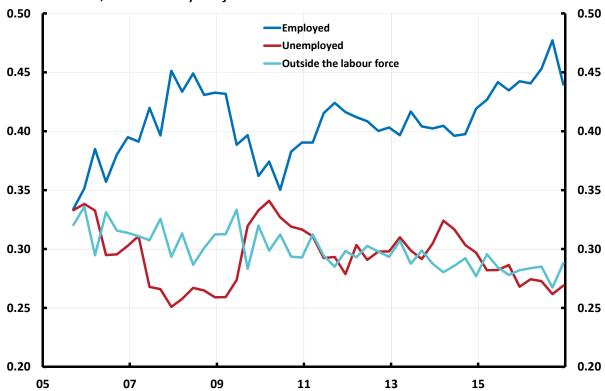
Note. Recruitment plans refer to expectations of the number of employed in the business sector three months ahead. The broken line represents the mean value since 2003.

Sources: The National Institute of Economic Research,
Statistics Sweden and the Riksbank





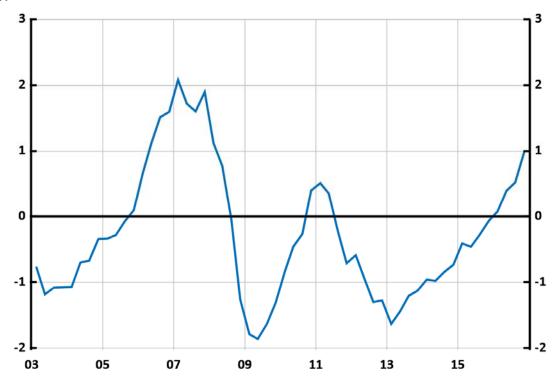
Share of total recruitments, seasonally-adjusted data



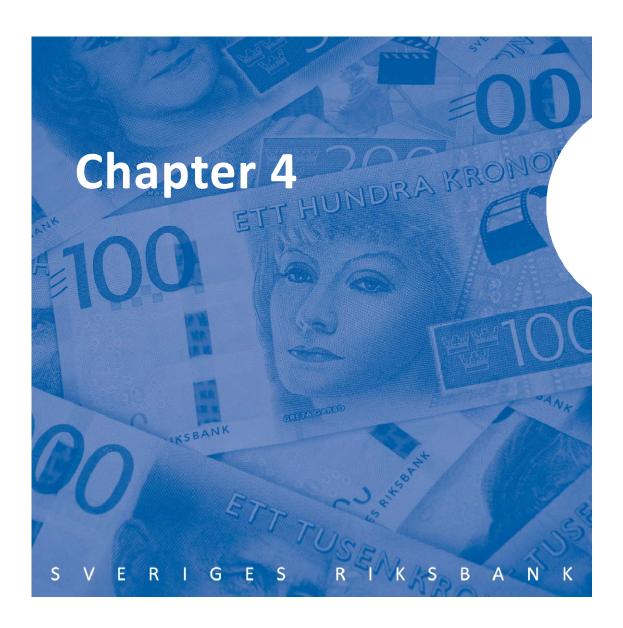
Note. Recruitment refers only to recruitment outside of the company/organisation.



### Figure 3.11. RU indicator Standard deviation



Note. The RU indicator is a measure of resource utilisation. It is normalised so that the mean value is 0 and the standard deviation is 1. Source: The Riksbank

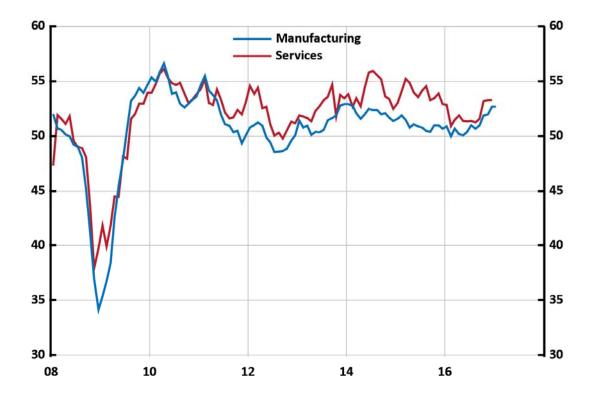






#### Figure 4.1. Global purchasing managers index

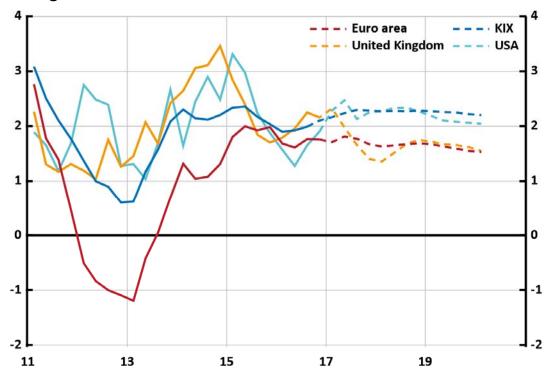
Index



Source: Markit







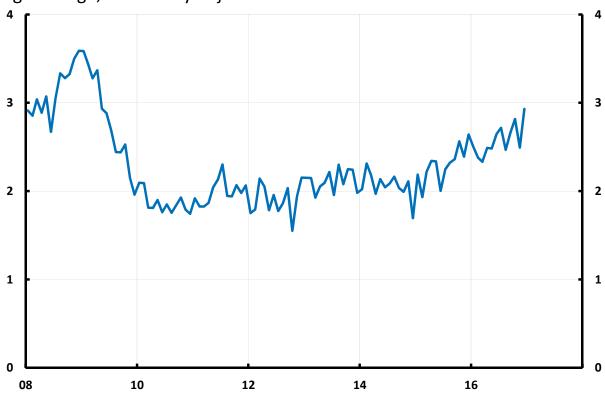
Note. KIX is an aggregate of the countries that are important to Sweden's international transactions.

Sources: Bureau of Economic Analysis, Eurostat, national sources,
Office for National Statistics and the Riksbank



#### Figure 4.3. Hourly wages in USA

Annual percentage change, seasonally adjusted data



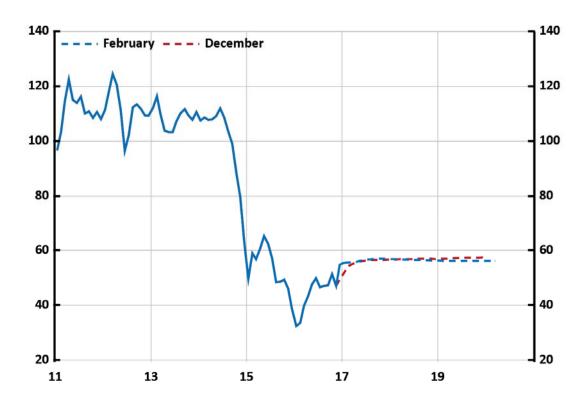
Note. Average hourly wages in private sector.

Source: Bureau of Labour Statistics



#### Figure 4.4. Crude Oil Price

USD per barrel

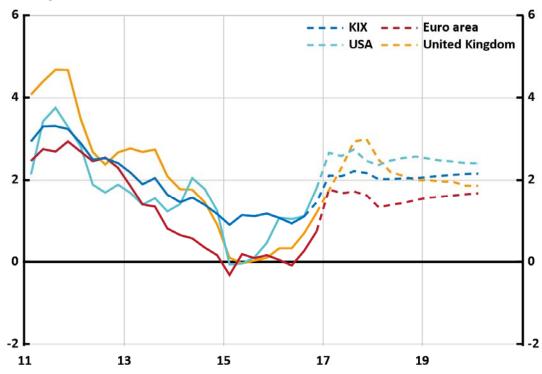


Note. Brent oil, futures are calculated as a 15-day average. Outcomes represent monthly averages of spot prices.

Sources: Macrobond and the Riksbank







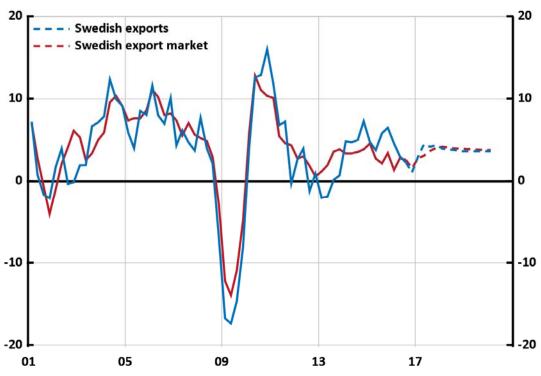
Note. KIX is an aggregate of the countries that are important to Sweden's international transactions. When calculating KIX-weighted inflation, the HICP is used for the euro area and the CPI for other countries. Inflation for the euro area is shown measured using the HICP and for the United States and the United Kingdom measured using the CPI.

Sources: The Bureau of Labor Statistics, Eurostat, national sources, Office for National Statistics and the Riksbank





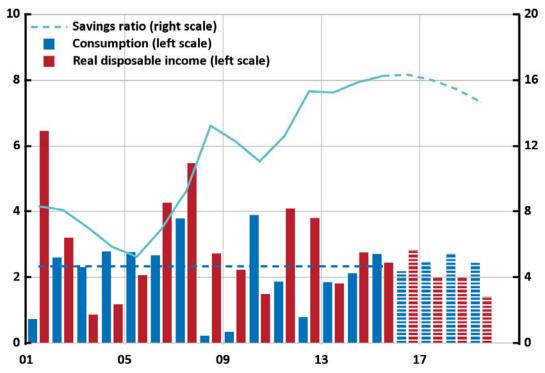
Annual percentage change, calendar-adjusted data



Note. The Swedish export market index aims to measure import demand in the countries to which Sweden exports. This is calculated by aggregating 32 countries and covers around 85 per cent of the total Swedish export market.

# Figure 4.7. Households' real disposable income, consumption and savings ratio

Annual percentage change and per cent of disposable income

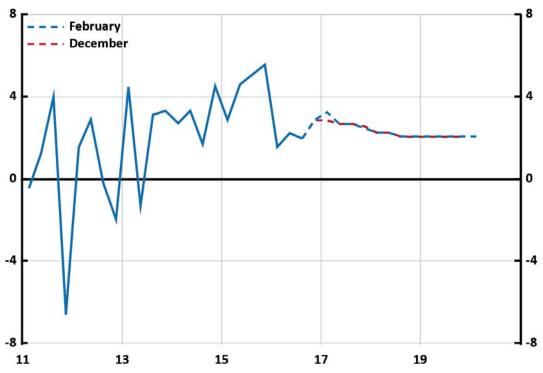


Note. The savings ratio includes collective insurance schemes. Disposable income has been deflated using the household consumption deflator. Broken line is the average of consumption between 1994 and 2015.





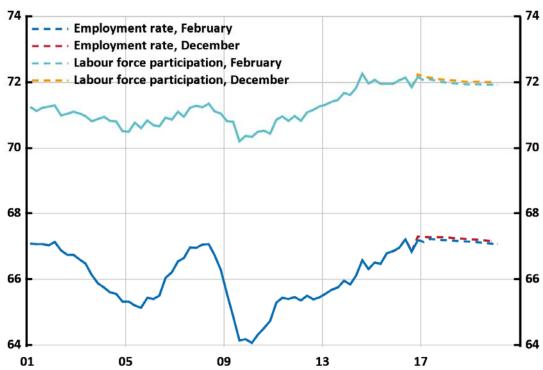
### Figure 4.8. GDP in Sweden Quarterly change in per cent, calculated as an annual percentage change, seasonally-adjusted data







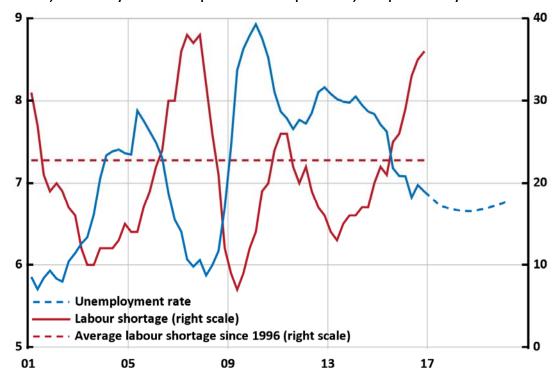
Employment and labour force as percentage of the population, aged 15–74, seasonally-adjusted data







Per cent of labour force, 15–74 years and positive responses, respectively



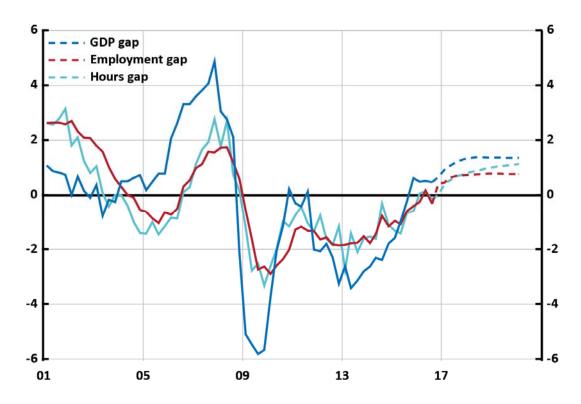
Note. Red broken lines refer to average between 1996 and the latest outcome.

Sources: The National Institute of Economic Research, Statistics Sweden and the Riksbank





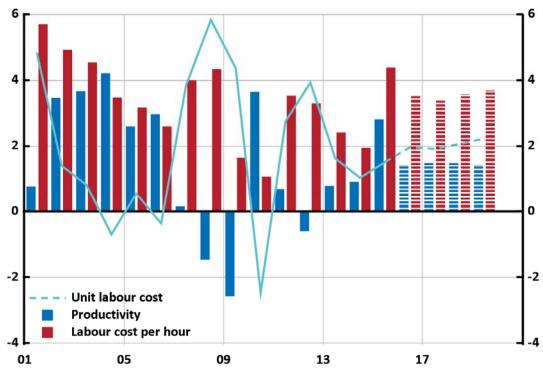
Per cent



Note. The gaps refer to the deviation in GDP, the number of hours worked and the number of those employed from the Riksbank's assessed trends.



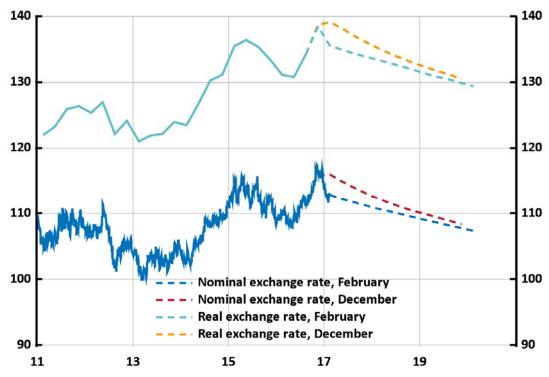








Index, 18 November 1992 = 100

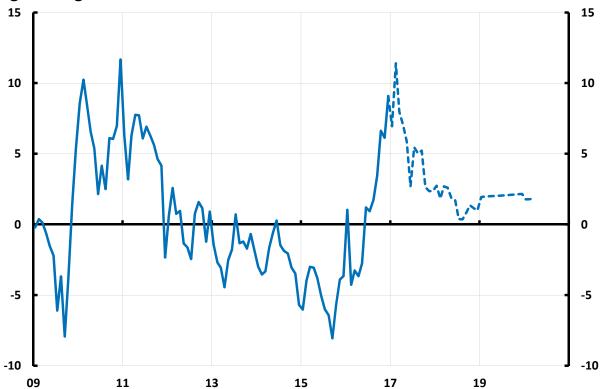


Sources: National sources, Statistics Sweden and the Riksbank



#### Figure 4.14. Energy prices in CPI

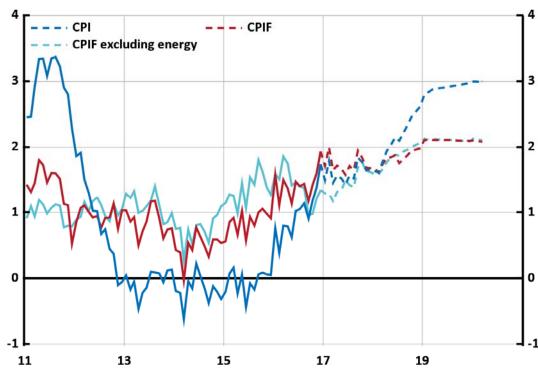
Annual percentage change



Note. Energy prices in CPI are a weighted average of the price developments in electricity and fuel prices and represent 7.6 per cent in CPI.



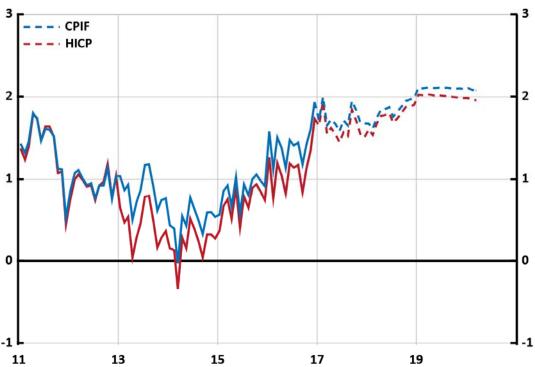




Note. The CPIF is the CPI with a fixed mortgage rate.



## Figure 4.16. CPIF and HICP Annual percentage change



Note. The CPIF is the CPI with a fixed mortgage rate.





The forecast in the previous Monetary Policy Report is shown in brackets unless otherwise stated.

Table 1. Repo rate forecast

Per cent, quarterly averages

	2016 kv 4	2017 kv 1	2017 kv 2	2018 kv 1	2019 kv 1	2020 kv 1
Repo rate	-0.5	-0.5 (-0.5)	-0.5 (-0.6)	-0.5 (-0.5)	0.0 (0.0)	0.5

Source: The Riksbank

Table 2. Inflation

Annual percentage change, annual average

	2015	2016	2017	2018	2019
СРІ	0.0	1.0 (1.0)	1.6 (1.4)	2.1 (2.2)	2.9 (3.0)
CPIF	0.9	1.4 (1.4)	1.7 (1.6)	1.8 (1.9)	2.1 (2.1)
CPIF excl. energy	1.4	1.4 (1.4)	1.5 (1.3)	1.9 (2.0)	2.1 (2.1)
HICP	0.7	1.1 (1.1)	1.6 (1.5)	1.8 (1.8)	2.0 (2.0)

Note. The CPIF is the CPI with a fixed mortgage rate. HICP is an EU harmonised index of consumer prices.

Sources: Statistics Sweden and the Riksbank

Table 3. Summary of financial forecasts

Per cent, unless otherwise stated, annual average

	2015	2016	2017	2018	2019
Repo rate	-0.3	-0.5 (-0.5)	-0.5 (-0.6)	-0.3 (-0.3)	0.2 (0.2)
10-year rate	0.8	0.5 (0.5)	1.0 (1.1)	1.8 (2.0)	2.4 (2.8)
Exchange rate, KIX, 18 November 1992 = 100	112.6	111.7 (111.7)	112.0 (114.5)	110.1 (111.3)	108.4 (109.2)
General government net lending*	0.2	0.5 (0.4)	0.2 (0.1)	0.5 (0.3)	0.8 (0.6)

\* Per cent of GDP



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Table 4. International conditions

Annual percentage change, unless otherwise stated

GDP	PPP-weights	KIX-weights	2015	2016	2017	2018	2019
Euro area	0,14	0,47	1.9	1.7 (1.6)	1.7 (1.6)	1.7 (1.7)	1.6 (1.6)
USA	0,16	0,08	2.6	1.6 (1.6)	2.3 (2.5)	2.3 (2.3)	2.1 (2.1)
Japan	0,05	0,02	1.2	1.0 (1.0)	1.1 (1.0)	0.9 (0.8)	0.8 (0.8)
China	0,15	0,08	6.9	6.7 (6.7)	6.4 (6.2)	5.8 (5.8)	5.7 (5.7)
KIX-weighted	0,75	1,00	2.2	2.0 (2.0)	2.2 (2.2)	2.3 (2.3)	2.2 (2.3)
World (PPP-weighted)	1,00	_	3.2	3.1 (3.2)	3.4 (3.5)	3.6 (3.6)	3.7 (3.7)

Note. Calendar-adjusted growth rates. The PPP-weights refer to the global purchasing-power adjusted GDP-weights, according to the IMF. The Riksbank updates the weights for the KIX krona index at the start of every year with a time lag of three years. The figures in the table are based on the new KIX weights for 2014 that are used for 2017, and on an assumption that the weights will develop according to the trend of the past five years in the coming forecast years.

СРІ	2015	2016	2017	2018	2019
Euro area (HICP)	0.0	0.2 (0.2)	1.7 (1.4)	1.4 (1.4)	1.6 (1.6)
USA	0.1	1.3 (1.2)	2.6 (2.7)	2.5 (2.5)	2.5 (2.5)
Japan	0.8	-0.1 (-0.1)	0.7 (0.7)	1.4 (1.5)	1.7 (1.8)
KIX-weighted	1.1	1.1 (1.1)	2.2 (2.0)	2.0 (2.1)	2.1 (2.1)
	2015	2016	2017	2018	2019
Policy rates in the rest of the world, per cent	0.1	-0.1 (-0.1)	-0.1 (-0.1)	0.0 (0.0)	0.2 (0.2)
Crude oil price, USD/barrel Brent	53.5	45.1 (44.6)	56.4 (55.7)	56.6 (56.9)	56.2 (57.3)
Swedish export market	3.2	2.1 (2.0)	3.4 (3.2)	4.1 (4.0)	3.8 (3.9)

Note. Policy rates in the rest of the world refer to a weighted average of USA, the euro area, Norway and the United Kingdom. Sources: Eurostat, IMF, Intercontinental Exchange, national sources, OECD and the Riksbank



Table 5. GDP by expenditure
Annual percentage change, unless otherwise stated

	2015	2016	2017	2018	2019
Private consumption	2.7	2.2 (2.2)	2.5 (2.4)	2.7 (2.7)	2.4 (2.4)
Public consumption	2.5	3.6 (3.6)	1.6 (2.0)	1.1 (1.4)	1.1 (1.2)
Gross fixed capital formation	7.0	6.9 (7.1)	3.4 (3.5)	3.1 (2.8)	2.8 (2.8)
Inventory investment*	0.3	0.2 (0.3)	-0.1 (0.0)	0.0 (0.0)	0.0 (0.0)
Exports	5.6	3.0 (2.9)	3.6 (2.9)	3.6 (3.6)	3.6 (3.6)
Imports	5.5	4.3 (4.4)	3.4 (3.5)	4.0 (4.0)	4.0 (4.0)
GDP	4.1	3.4 (3.4)	2.5 (2.4)	2.2 (2.2)	2.1 (2.1)
GDP, calendar-adjusted	3.8	3.2 (3.2)	2.7 (2.6)	2.3 (2.4)	2.1 (2.1)
Final figure for domestic demand*	3.5	3.5 (3.6)	2.4 (2.4)	2.3 (2.3)	2.1 (2.1)
Net exports*	0.3	-0.4 (-0.5)	0.2 (-0.1)	0.0 (0.0)	0.0 (0.0)
Current account (NA), per cent of GDP	4.7	4.2 (4.2)	4.3 (3.9)	4.1 (3.7)	3.9 (3.5)

<sup>\*</sup>Contribution to GDP growth, percentage points

Note. The figures show actual growth rates that have not been calendar-adjusted, unless otherwise stated. NA is the National Accounts.

Table 6. Production and employment

Annual percentage change, unless otherwise stated

	2015	2016	2017	2018	2019
Population, aged 15–74	0.7	0.9 (0.9)	1.1 (1.0)	0.7 (0.7)	0.6 (0.6)
Potential hours worked	0.8	0.7 (0.7)	0.6 (0.6)	0.5 (0.5)	0.5 (0.5)
GDP, calendar-adjusted	3.8	3.2 (3.2)	2.7 (2.6)	2.3 (2.4)	2.1 (2.1)
Number of hours worked, calendar-adjusted	1.0	1.8 (1.9)	1.2 (1.2)	0.9 (0.8)	0.6 (0.6)
Employed, aged 15–74	1.4	1.5 (1.5)	1.3 (1.3)	0.7 (0.7)	0.5 (0.5)
Labour force, aged 15–74	0.8	1.0 (1.0)	1.1 (1.0)	0.6 (0.6)	0.6 (0.6)
Unemployment, aged 15–74 *	7.4	6.9 (6.9)	6.7 (6.7)	6.7 (6.7)	6.7 (6.7)

<sup>\*</sup> Per cent of the labour force

Note. Potential hours refer to the long-term sustainable level for the number of hours worked according to the Riksbank's assessment.

Sources: Statistics Sweden and the Riksbank

Table 7. Wages and labour costs for the economy as a whole

Annual percentage change, calendar-adjusted data unless otherwise stated

	2015	2016	2017	2018	2019
Hourly wage, NMO	2.4	2.5 (2.5)	3.0 (3.1)	3.3 (3.4)	3.5 (3.6)
Hourly wage, NA	3.5	2.9 (2.8)	3.4 (3.4)	3.6 (3.6)	3.7 (3.7)
Employers' contribution*	0.9	0.6 (0.6)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
Hourly labour cost, NA	4.4	3.5 (3.4)	3.4 (3.4)	3.6 (3.6)	3.7 (3.7)
Productivity	2.8	1.4 (1.3)	1.5 (1.4)	1.5 (1.5)	1.4 (1.4)
Unit labour cost	1.5	2.1 (2.0)	1.9 (1.9)	2.1 (2.0)	2.2 (2.3)

<sup>\*</sup> Contribution to the increase in labour costs, percentage points

Note. NMO is the National Mediation Office's short-term wage statistics and NA is the National Accounts. Labour cost per hour is defined as the sum of actual wages, social-security charges and wage taxes divided by the seasonally adjusted total number of hours worked. Unit labour cost is defined as labour cost divided by seasonally-adjusted value added at constant prices.

Sources: National Mediation Office, Statistics Sweden and the Riksbank

